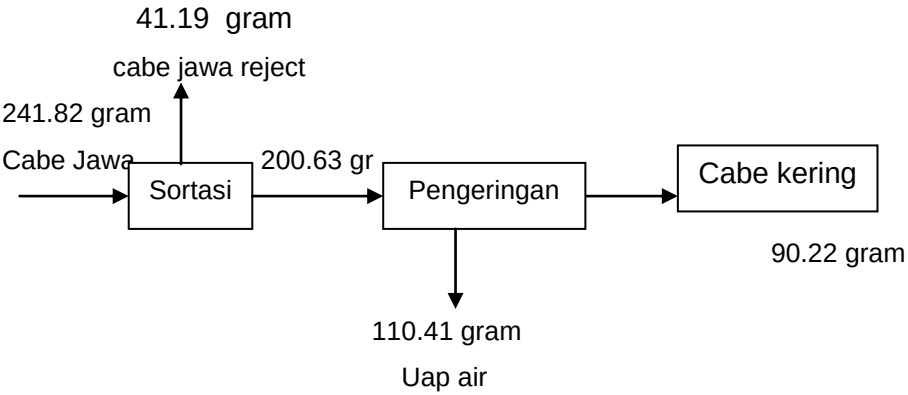
Lampiran 1. Perhitungan Kesetimbangan Massa

Kadar air awal = 62%

Kadar air akhir = (62 x 110.41) / 200.63

= 34.11 %

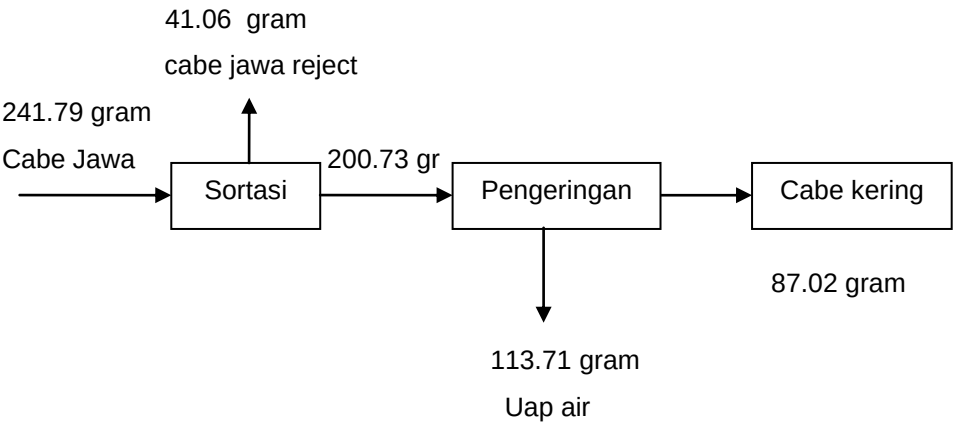


Gambar 1 Keseimbangan massa tanpa *blanching* pengeringan suhu 40^0C

Kadar air awal = 63%

Kadar air akhir = (63 x 87.02) / 200.73

= 27.31 %

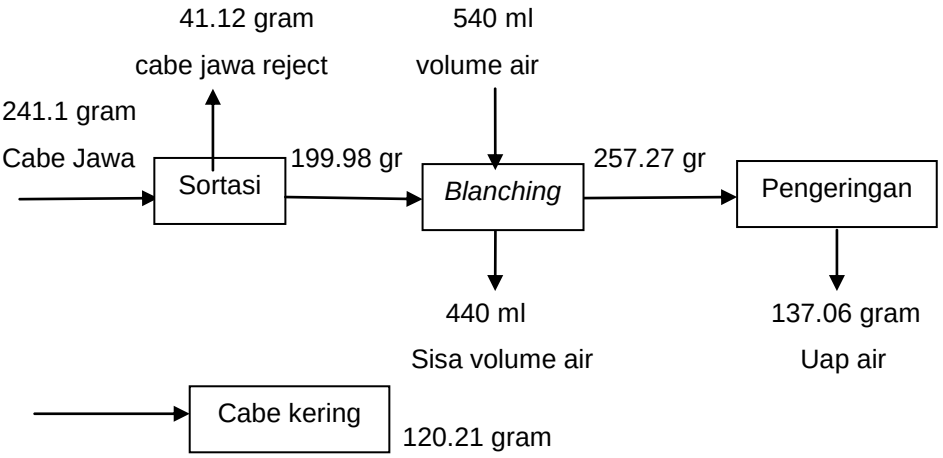


Gambar 2. Keseimbangan massa tanpa *blanching* pengeringan suhu 50^0C

Kadar air awal = 63%

Kadar air akhir = (63 x 120.21) / 199.98

= 37.86 %

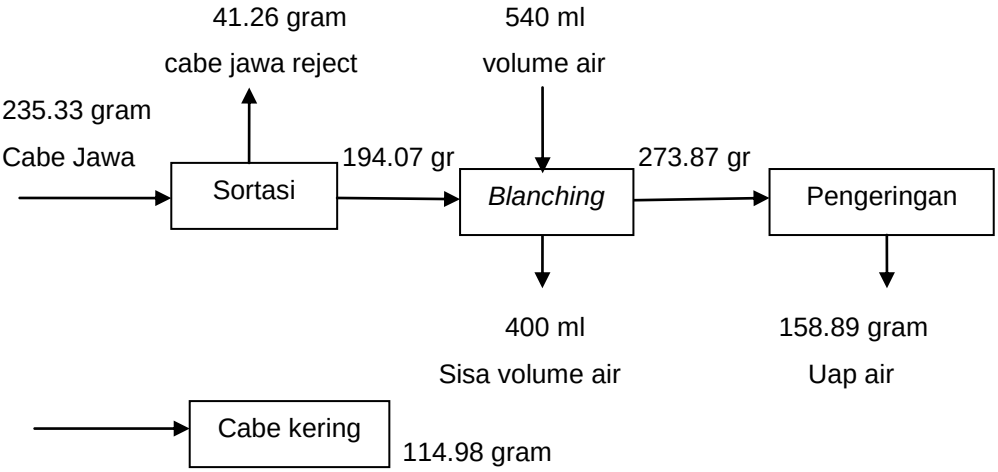


Gambar 5. Kesetimbangan massa *blanching* 10 menit pengeringan suhu 50^0C

Kadar air awal = 63%

Kadar air akhir = (63 x 114.98) / 194.07

= 37.32 %

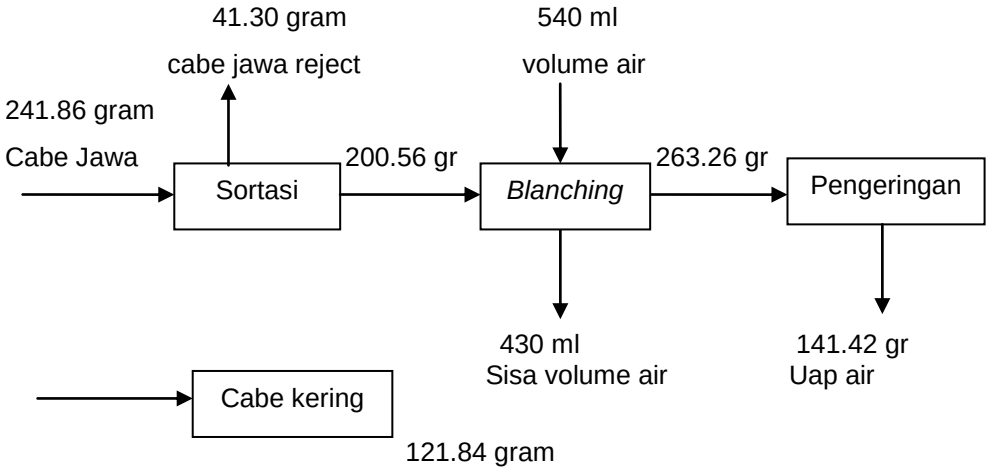


Gambar 7. Kesetimbangan massa *blanching* 20 menit pengeringan suhu 40^0C

Kadar air awal = 63%

Kadar air akhir = (63 x 121.84) / 200.56

= 38.27%

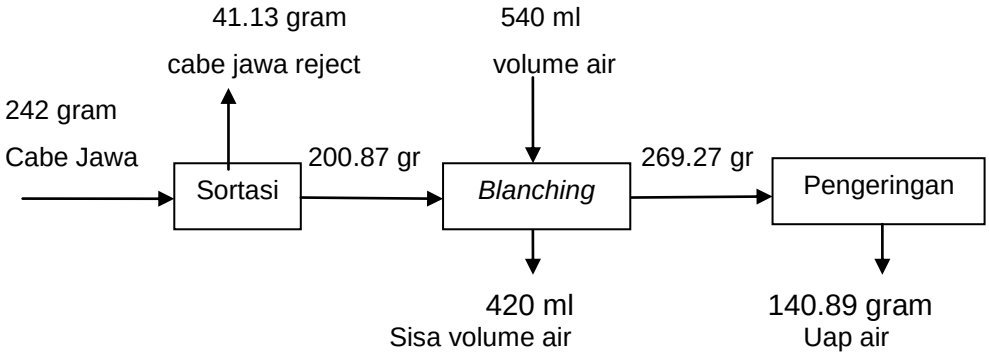


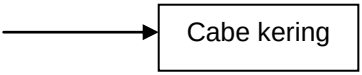
Gambar 8. Kesetimbangan massa *blanching* 20 menit pengeringan suhu 50^0C

Kadar air awal = 66%

Kadar air akhir = (66 x 128.38) / 200.87

= 42.18 %





Gambar 9. Kesetimbangan massa *blanching* 20 menit pengeringan suhu 60^0C

Lampiran 2. Rendemen masing-masing perlakuan dengan 3 ulangan

Contoh perhitungan rendemen pada suhu pengeringan 40^0C tanpa *blanching* pegulangan pertama :

Rendemen = Berat Kering simplisia x 100%

Berat awal cabe jawa

= 1.242 X 100%

3.046

= 40.77 %

Suhu (^{0}C)	Waktu *Blanching* (menit)	Rendemen (%)	Rata-rata (%)
40	0	40.77	37.41
40	0	36.05	
40	0	35.41	
50	0	38.91	36.38
50	0	38.41	
50	0	31.84	
60	0	33.47	34.68
60	0	34.64	
60	0	35.95	
40	10	34.75	34.84
40	10	33.62	
40	10	36.18	
50	10	39.33	37.14
50	10	36.37	
50	10	35.74	
60	10	33.85	33.63
60	10	31.40	
60	10	35.66	

40	20	37.82	37.13
40	20	36.53	
40	20	37.06	
50	20	37.11	37.12
50	20	38.76	
50	20	35.50	
60	20	33.47	34.12
60	20	33.58	
60	20	35.34	

Lampiran 3. Perubahan kadar air selama proses pengeringan
Contoh perhitungan kadar air pada menit ke-780 pengulangan pertama suhu pengeringan 40^0C tanpa *blanching*:

$$\text{Kadar air (BB)} = \frac{\text{Berat awal} - \text{Berat akhir}}{\text{Berat awal}} \times 100\%$$

$$= \frac{2{,}040 \text{ gram}}{1{,}242 \text{ gram}} \times 100\%$$

$$= 39{,}12\ \%$$

a. Suhu 40^0C

Waktu (menit)	Kadar Air (%)		
	Tanpa *blanching*	*Blanching* 10 menit	*Blanching* 20 menit
0	62.58802	65.15322	62.86291
15	62.00199	64.57548	62.45288
30	61.55105	63.7912	62.60913
45	61.10805	63.16242	61.93623
60	60.61765	62.47957	61.33476

75	60.20013	61.74242	60.69051
90	59.73487	60.94058	59.9901
105	59.29748	60.21631	59.36999
120	58.7944	59.64013	58.29829
150	57.88362	58.26173	57.51142
180	56.94675	56.76118	56.15255
210	56.01867	55.34881	54.68517
240	55.00073	53.93867	53.23686
270	53.93253	52.57391	51.86376
300	52.9796	51.1648	50.40662
330	52.10322	49.65421	48.83139
360	51.06235	48.36624	47.25755
390	50.17013	47.03076	45.77486
420	49.21551	45.64382	44.09355
450	48.24588	44.25968	42.61706
480	47.38814	42.95629	41.25056
510	46.49777	41.61134	39.60639
540	45.601	40.35987	38.19611
570	44.7856	39.22428	36.85116
600	44.01068	38.11949	35.52224
630	43.14215	36.85208	34.23183
660	42.40083	35.78052	32.8321
690	41.61446	34.80995	31.55797
720	40.96044	33.88179	30.36882
750	40.05298	32.93457	29.34692
780	39.37707	32.08329	28.18834

b. Suhu 50^0C

Waktu (menit)	Kadar Air (%)		
	Tanpa *blanching*	*Blanching* 10 menit	*Blanching* 20 menit
0	63.6137	62.85332	62.87788
15	62.85385	61.76736	61.84502
30	62.1553	60.79152	60.945
45	61.43157	59.86225	59.99089
60	60.7922	58.85696	59.10846
75	60.11565	57.90918	58.22231
90	59.43204	56.80764	57.24819
105	58.61466	55.8996	56.33173
120	57.94973	54.9387	55.33342
150	56.4298	52.87276	53.22127
180	55.00044	50.64618	51.1778
210	53.51926	48.41982	49.12103
240	52.15183	46.43373	46.93783
270	50.68406	44.35604	44.82025
300	49.28215	42.27299	42.53784
330	47.73585	40.3654	40.26625
360	46.37866	38.33107	38.23077
390	44.93913	36.16288	35.98935
420	43.30678	34.44688	33.88862
450	41.75606	32.49641	31.71553
480	40.28069	30.91199	29.80496
510	38.766	29.14191	27.95976
540	37.26247	27.61763	26.13265
570	35.74175	26.26018	24.75028

600	34.2285	24.83279	23.29936
630	32.83555	23.70639	22.01261
660	31.37386	22.73001	20.83854
690	30.07026	21.59688	19.72435
720	28.78215	20.66283	19.00773
750	27.59048	19.74412	17.63226
780	26.37355	19.02782	17.5051

c. Suhu 60^0C

Waktu (menit)	Kadar Air (%)		
	Tanpa *blanching*	*Blanching* 10 menit	*Blanching* 20 menit
0	65.31209	66.36685	65.87106
15	64.23561	63.82897	63.25324
30	63.33833	62.03973	61.60317
45	62.41091	60.17141	59.87957
60	61.5071	58.14855	58.09721
75	60.70102	56.21443	56.45001
90	59.75814	54.26667	54.67554
105	58.80597	52.12099	52.97497
120	57.94403	49.81662	51.03517
150	55.99334	45.4892	46.92729
180	53.95215	41.66943	42.86755
210	51.13191	38.05913	39.63256
240	48.9776	34.59323	35.74867
270	46.72657	30.7211	32.58136
300	44.34957	27.50512	29.85216
330	41.85914	24.46156	27.22161
360	39.5223	21.22489	24.70966
390	37.01381	18.76323	22.51669

420	34.62021	16.69129	21.57667
450	32.26752	14.87193	18.7008
480	29.73531	13.50798	17.26032
510	27.44538	12.18175	15.85607
540	25.32024	11.35934	14.8524
570	23.36602	10.34154	13.73061
600	21.57738	9.571419	12.9481
630	19.79071	9.153257	12.26175
660	18.37612	8.769955	11.62226
690	16.85514	8.341361	11.20181
720	15.7796	8.132883	10.77585
750	14.95495	7.922782	10.3664
780	14.5646	7.711035	10.02944

Lampiran 4. Tekstur

Untuk hasil tekstur pada *blanching* 10 dan 20 menit pada suhu 60^0C dianggap data hilang dan dicari menggunakan interpolasi sebagai berikut :

1. *Blanching* 10 Menit

Y_1= 17.9 X_1= 40 $Y_3 = Y_1 + \frac{[(X_3-X_1)]}{(X_2-X_1)}(Y_2-Y_1)$

Y_2= 21.8 X_2= 50

Y_3= ? X_3= 60 = 25,7

2. *Blanching* 20 Menit

Y_1= 14.0 X_1= 40 $Y_3 = Y_1 + \frac{[(X_3-X_1)]}{(X_2-X_1)}(Y_2-Y_1)$

Y_2= 16.8 X_2= 50

Y_3= ? X_3= 60 = 19.6

Suhu (^{0}C)	waktu *blanching* (menit)	Nilai tekstur (*Newton)*	Rata-rata (*Newton)*
40	0	13.3	11.50
40	0	9.9	
40	0	11.3	
50	0	14.7	15.30
50	0	12.9	
50	0	18.3	
60	0	21.6	24.33
60	0	28.5	
60	0	22.9	
40	10	23.3	17.90
40	10	13.6	
40	10	16.8	
50	10	17.5	21.80
50	10	23.4	
50	10	24.5	
60	10	20.4	25.7
60	10	37.3	
60	10	19.3	
40	20	19.2	13.97
40	20	10.4	
40	20	12.3	
50	20	11.9	16.77
50	20	10.6	
50	20	27.8	
60	20	26.1	19.6
60	20	17.1	
60	20	15.7	

Lampiran 5. Nilai Warna

Untuk hasil warna *green* dan *blue* pada tanpa *blanching* dan 10 menit pada suhu 50^0C dicari menggunakan interpolasi sebagai berikut :

1. *Green* tanpa *blanching*

Y_1= 15 X_1= 40 $Y_2 = Y_1 + \frac{[(X_2 - X_1)]}{(X_3 - X_1)}(Y_3 - Y_1)$

Y_2= ? X_2= 50

Y_3= 11 X_3= 60 = 13

2. *Green blanching* 10 menit

Y_1= 18 X_1= 40 $Y_2 = Y_1 + \frac{[(X_2 - X_1)]}{(X_3 - X_1)}(Y_3 - Y_1)$

Y_2= ? X_2= 50

Y_3= 10 X_3= 60 = 9

3. *Blue* tanpa *blanching*

Y_1= 15 X_1= 40 $Y_2 = Y_1 + \frac{[(X_2 - X_1)]}{(X_3 - X_1)}(Y_3 - Y_1)$

Y_2= ? X_2= 50

Y_3= 13 X_3= 60 = 14

4. *Blue blanching* 10 menit

Y_1= 8 X_1= 40 $Y_2 = Y_1 + \frac{[(X_2 - X_1)]}{(X_3 - X_1)}(Y_3 - Y_1)$

Y_2= ? X_2= 50

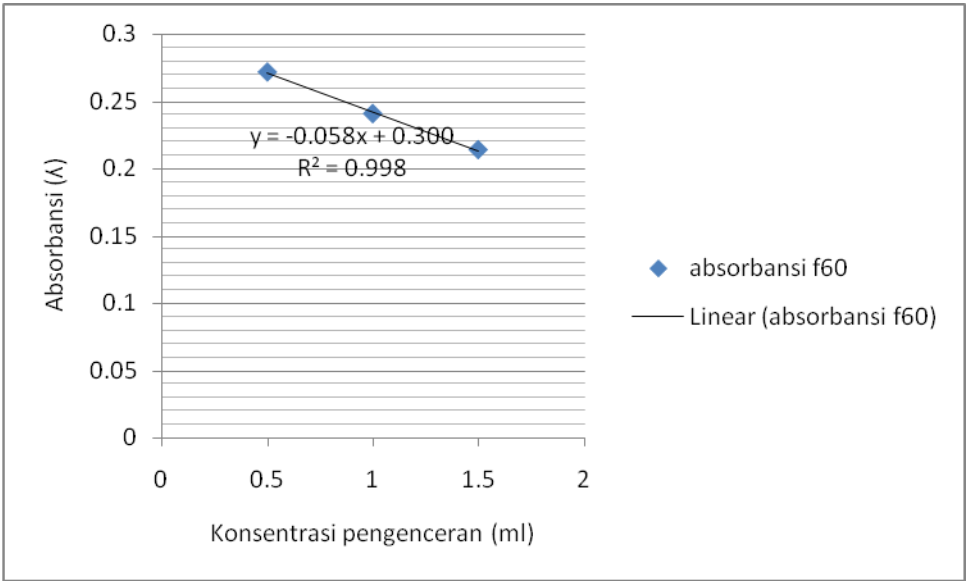
Y_3= 10 X_3= 60 = 9

Suhu (^{0}C)	*Blanching* (menit)	RED	GREEN	BLUE	Rata-rata		
					RED	GREEN	BLUE
40	0	207	19	19	211	15	15
40	0	225	17	17			
40	0	201	10	10			
50	0	211	16	15	180	13	14
50	0	166	11	14			
50	0	163	12	13			
60	0	187	10	15	201	11	13
60	0	197	14	9			
60	0	220	8	16			

40	10	227	6	6	215	8	8
40	10	215	8	8			
40	10	203	10	10			
50	10	160	9	12	177	9	9
50	10	176	11	8			
50	10	195	8	6			
60	10	200	11	11	206	11	11
60	10	205	10	10			
60	10	214	8	8			
40	20	210	8	9	195	11	12
40	20	200	11	11			
40	20	175	14	15			
50	20	203	15	10	203	11	10
50	20	205	9	10			
50	20	201	9	10			
60	20	209	9	9	205	10	10
60	20	194	11	11			
60	20	213	8	8			

Lampiran 6. Nilai Antioksidan

Contoh perhitungan antioksidan pada suhu pengeringan 60^0C tanpa *blanching* pengulangan pertama:



Y = - 0.058x + 0.300 Nilai blanko = 0.300

= - 0.058x + 0.300 - (0.5 x blanko)

= - 0.058x + 0.300 – 0.150

= - 0.058x + 0.150

X= 0.150 / 0.058

= 2.58 mg/ml

Suhu (^{0}C)	Waktu *Blanching* (menit)	Antioksidan (mg/ml)	Rata – rata (mg/ml)
40	0	6.13	5.63
40	0	5.54	
40	0	5.24	
50	0	1.14	1.66
50	0	1.6	
50	0	2.26	
60	0	2.58	2.64
60	0	2.52	
60	0	2.83	
40	10	1.58	1.47
40	10	1.63	
40	10	1.22	
50	10	3.75	3.00
50	10	2.58	
50	10	2.68	
60	10	3.48	3.09
60	10	2.86	
60	10	2.95	
40	20	2.94	2.39
40	20	2.18	
40	20	2.07	
50	20	2.84	2.30
50	20	2.2	
50	20	1.87	
60	20	1.36	1.64
60	20	1.26	
60	20	2.3	

Lampiran 7. Hasil uji tanin

Suhu (^{0}C)	*Blanching* (menit)	Tanin (%)
40	0	0.24
50	0	0.18
60	0	0.36
40	10	0.33
50	10	0.34
60	10	0.36
40	20	0.46
50	20	0.33
60	20	0.24

a.Tanpa *blanching*

KEMENTERIAN RISET, TEKNOLOGI DAN PENDIDIKAN TINGGI
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LAPORAN HASIL ANALISA

NO : TN.51 / RT.5 / T.1 / R.0 / TT. 150803 / 2017

1. Data Konsumen
   - Nama : Isna Fitriyani
   - Instansi : Fakultas Teknologi Pertanian Universitas Brawijaya
   - Alamat : JL Veteran Malang
   - Telepon : 081357955195
   - Status : Mahasiswa-S1
   - Keperluan Analisis : Uji Kualitas
2. Sampling Dilakukan Oleh : Konsumen
3. Identifikasi Sampel
   - Nama Sampel : ***Cabai Jawa***
   - Wujud : Padat
   - Warna : Coklat
   - Bau : Berbau
4. Prosedur Analis : Dilakukan oleh UPT Layanan Analisa dan Pengukuran Jurusan Kimia FMIPA Universitas Brawijaya Malang
5. Penyampaian Laporan Hasil Analisis : Diambil Langsung
6. Tanggal Terima Sampel : 09 Juni 2017
7. Data Hasil Analisis :

No	Kode	Parameter	Hasil Analisis		Metode Analisis	
			Kadar	Satuan	Pereaksi	Metode
1	**F40**	Tannin	0,24 ± 0,00	%	$KMnO_4$	Titrasi Redoks
2	**F50**	Tannin	0,18 ± 0,00	%	$KMnO_4$	Titrasi Redoks
3	**F60**	Tannin	0,36 ± 0,00	%	$KMnO_4$	Titrasi Redoks

Catatan:
1. Hasil analisis ini adalah nilai rata-rata pengerjaan analisis secara duplo,
2. Hasil analisis ini hanya berlaku untuk sampel yang kami terima dengan kondisi sampel saat itu.

Malang, 24 Juli 2017

Mengetahui,
Ketua Jurusan Kimia,

Masruri, S.Si., M.Si., Ph.D
NIP. 19731020 200212 1 001

Ketua UPT Layanan Analisa dan Pengukuran,

Moh. Farid Rahman, S.Si., M.Si
NIP. 19700720 199702 1 001

b. *Blanching 10 menit*

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LAPORAN HASIL ANALISA

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1. Data Konsumen
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   Alamat : Jl. Veteran Malang
   Telepon : 081357955195
   Status : Mahasiswa-S1
   Keperluan Analisis : Uji Kualitas
2. Sampling Dilakukan Oleh : Konsumen
3. Identifikasi Sampel
   Nama Sampel : ***Cabai Jawa***
   Wujud : Padat
   Warna : Hitam Kecoklatan
   Bau : Berbau
4. Prosedur Analis : Dilakukan oleh UPT Layanan Analisa dan Pengukuran Jurusan Kimia FMIPA Universitas Brawijaya Malang
5. Penyampaian Laporan Hasil Analisis : Diambil Langsung
6. Tanggal Terima Sampel : 06 Juli 2017
7. Data Hasil Analisis :

No	Kode	Parameter	Hasil Analisis		Metode Analisis	
			Kadar	Satuan	Pereaksi	Metode
1	A21	Tannin	0,33 ± 0,00	%	$KMnO_4$	Titrasi Redoks
2	A22	Tannin	0,34 ± 0,02	%	$KMnO_4$	Titrasi Redoks
3	A23	Tannin	0,36 ± 0,00	%	$KMnO_4$	Titrasi Redoks

Catatan:
1. Hasil analisis ini adalah nilai rata-rata pengerjaan analisis secara duplo,
2. Hasil analisis ini hanya berlaku untuk sampel yang kami terima dengan kondisi sampel saat itu.

Mengetahui,
Ketua Jurusan Kimia,

Masruri, S.Si., M.Si., Ph.D
NIP. 19731020 200212 1 001

Malang, 24 Juli 2017

Ketua UPT Layanan Analisa dan Pengukuran,

Moh. Farid Rahman, S.Si., M.Si
NIP. 19700720 199702 1 001

c. *Blaching* 20 menit

KEMENTERIAN RISET, TEKNOLOGI DAN PENDIDIKAN TINGGI
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LAPORAN HASIL ANALISA

NO : TN.58 / RT.5 / T.1 / R.0 / TT. 150803 / 2017

1. Data Konsumen
   - Nama : Isna Fitriyani
   - Instansi : Fakultas Teknologi Pertanian Universitas Brawijaya
   - Alamat : Jl. Veteran Malang
   - Telepon : 081357955195
   - Status : Mahasiswa-S1
   - Keperluan Analisis : Uji Kualitas
2. Sampling Dilakukan Oleh : Konsumen
3. Identifikasi Sampel
   - Nama Sampel : ***Cabai Jawa***
   - Wujud : Padat
   - Warna : Hitam
   - Bau : Berbau
4. Prosedur Analis : Dilakukan oleh UPT Layanan Analisa dan Pengukuran Jurusan Kimia FMIPA Universitas Brawijaya Malang
5. Penyampaian Laporan Hasil Analisis : Diambil Langsung
6. Tanggal Terima Sampel : 13 Juli 2017
7. Data Hasil Analisis :

No	Kode	Parameter	Hasil Analisis		Metode Analisis	
			Kadar	Satuan	Pereaksi	Metode
1	**T1.60**	Tannin	0,24 ± 0,00	%	$KMnO_4$	Titrasi Redoks
2	**T2.50**	Tannin	0,33 ± 0,00	%	$KMnO_4$	Titrasi Redoks
3	**T3.40**	Tannin	0,46 ± 0,01	%	$KMnO_4$	Titrasi Redoks

Catatan:
1. Hasil analisis ini adalah nilai rata-rata pengerjaan analisis secara duplo,
2. Hasil analisis ini hanya berlaku untuk sampel yang kami terima dengan kondisi sampel saat itu.

Mengetahui,
Ketua Jurusan Kimia,

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Malang, 07 Agustus 2017

Ketua UPT Layanan Analisa dan Pengukuran,

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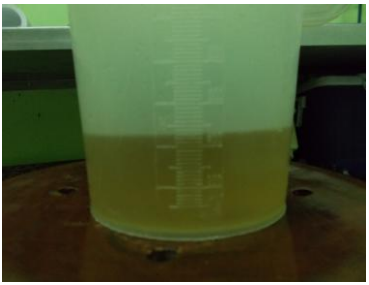
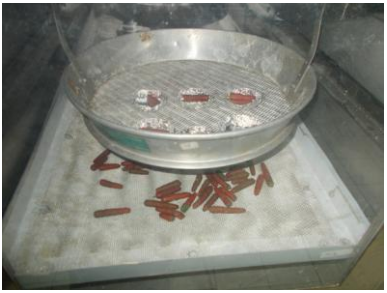
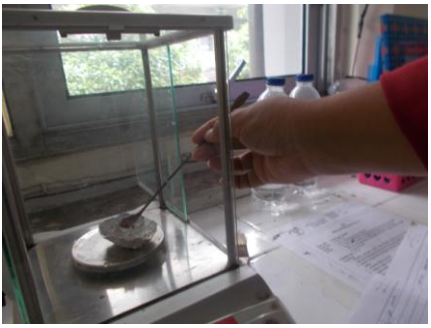
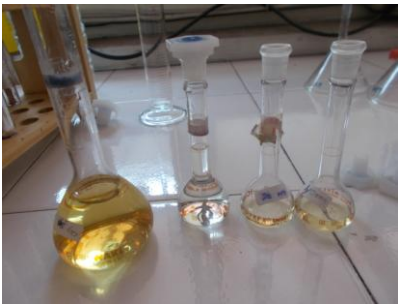
Lampiran 9. Dokumentasi penelitian

NO	Keterangan	Gambar
1	Penimbangan bahan (cabe jawa)	
2	Sortasi (cabe jawa)	
3	*Blanching*	

4	Pengukuran Volume air *blanching*	
5	Pengeringan di *tray dryer*	
6	Penumbukkan cabe jawa	

7	Penimbangan cabe jawa (Antioksidan)	
8	Pelarutan cabe jawa dengan etanol 70%	
9	Penyaringan larutan setelah pengenceran	

10	Pengenceran dengan berbagai konsentrasi	
11	Pemindahan pengenceran ke tabung reaksi dengan penambahan DPPH	
12	Penyimpanan selama 30 menit	

13	Homogenisasi	
14	Pengukuran absorbansi menggunakan *spektofotometer U-vis*	

Lampiran 10. Analisis Ragam

Analysis of Variance (Kadar air)

Source	DF	Adj SS	Adj MS	F-Value	p-Value
Suhu	2	2273.87	1136.93	477.04	0.000
Waktu Blanching	2	358.78	179.39	75.27	0.000
Suhu*Waktu Blanching	4	42.62	10.65	4.47	0.011
Error	18	42.90	2.38		
Total	26	2718.16			

Analysis of Variance (Rendemen)

Source	DF	Adj SS	Adj MS	F-Value	p-Value
Suhu	2	39.051	19.526	4.42	0.027
Waktu Blanching	2	5.271	2.635	0.60	0.561
Suhu*Waktu Blanching	4	9.421	2.355	0.53	0.713
Error	18	79.521	4.418		
Total	26	133.264			

Analysis of Variance (Tekstur)

Source	DF	Adj SS	Adj MS	F-Value	p-Value
Suhu	2	349.59	174.80	5.09	0.018
Waktu Blanching	2	142.73	71.36	2.08	0.154
Suhu*Waktu Blanching	4	49.79	12.45	0.36	0.832
Error	18	618.69	34.37		
Total	26	1160.81			

Analysis of Variance (Antioksidan)

Source	DF	Adj SS	Adj MS	F-Value	p-Value
Suhu	2	3.712	1.8562	8.66	0.002
Waktu Blanching	2	6.718	3.3590	15.67	0.000
Suhu*Waktu Blanching	4	27.948	6.9869	32.60	0.000
Error	18	3.858	0.2143		
Total	26	42.236			

Analysis of Variance (warna *Red*)

Source	DF	Adj SS	Adj MS	F-Value	p-Value
Suhu	2	2230.22	1115.11	4.79	0.022
Waktu Blanching	2	60.67	30.33	0.13	0.879
Suhu*Waktu Blanching	4	1835.11	458.78	1.97	0.142
Error	18	41.92.00	232.89		
Total	26	8318.00			

Analysis of Variance (warna *Green*)

Source	DF	Adj SS	Adj MS	F-Value	p-Value
Suhu	2	11.56	5.778	0.71	0.504
Waktu Blanching	2	69.56	34.778	4.29	0.030
Suhu*Waktu Blanching	4	31.56	7.889	0.97	0.447
Error	18	146.00	8.111		
Total	26	258.67			

Analysis of Variance (warna *Blue*)

Source	DF	Adj SS	Adj MS	F-Value	p-Value
Suhu	2	4.222	2.111	0.29	0.750
Waktu Blanching	2	141.556	70.778	9.80	0.001
Suhu*Waktu Blanching	4	14.889	3.722	0.52	0.725
Error	18	130.000	7.222		
Total	26	290.667			

Hasil uji lanjut menggunakan uji tukey

A. Rendemen

General Linear Model: rendemen versus suhu, waktu blanching

```
Analysis of Variance

Source                    DF   Adj SS  Adj MS  F-Value  P-
Value
  suhu                     2   39.051  19.526     4.42
0.027
  waktu blanching          2    5.271   2.635     0.60
0.561
  suhu*waktu blanching     4    9.421   2.355     0.53
0.713
Error                     18   79.521   4.418
Total                     26  133.264
```

Comparisons for rendemen

Tukey Pairwise Comparisons: Response = rendemen, Term = suhu

```
Grouping Information Using the Tukey Method and 95%
Confidence

suhu  N     Mean  Grouping
50    9  36.8850  A
40    9  36.4653  A      B
60    9  34.1500         B

Means that do not share a letter are significantly
different.
```

Tukey Simultaneous 95% CIs

Tukey Pairwise Comparisons: Response = rendemen, Term = waktu blanching

Grouping Information Using the Tukey Method and 95% Confidence

waktu blanching	N	Mean	Grouping
0	9	36.1621	A
20	9	36.1294	A
10	9	35.2089	A

Means that do not share a letter are significantly different.

Tukey Simultaneous 95% CIs

Tukey Pairwise Comparisons: Response = rendemen, Term = suhu*waktu blanching

Grouping Information Using the Tukey Method and 95% Confidence

suhu*waktu blanching	N	Mean	Grouping
40 0	3	37.4120	A
50 10	3	37.1467	A
40 20	3	37.1371	A
50 20	3	37.1221	A
50 0	3	36.3863	A
40 10	3	34.8468	A
60 0	3	34.6879	A
60 20	3	34.1289	A
60 10	3	33.6332	A

Means that do not share a letter are significantly different.

B. Kadar air

General Linear Model: kadar air versus suhu, waktu blanching

Analysis of Variance

Source	DF	Adj SS	Adj MS	F-Value	P-Value
suhu	2	2273.87	1136.93	477.04	0.000
waktu blanching	2	358.78	179.39	75.27	0.000
suhu*waktu blanching	4	42.62	10.65	4.47	0.011
Error	18	42.90	2.38		
Total	26	2718.16			

Comparisons for kadar air

Tukey Pairwise Comparisons: Response = kadar air, Term = suhu

Grouping Information Using the Tukey Method and 95% Confidence

suhu	N	Mean	Grouping
40	9	33.2162	A
50	9	20.9688	B
60	9	10.7684	C

Means that do not share a letter are significantly different.

Tukey Simultaneous 95% CIs

Tukey Pairwise Comparisons: Response = kadar air, Term = waktu blanching

Grouping Information Using the Tukey Method and 95% Confidence

waktu
blanching N Mean Grouping
0 9 26.7717 A
10 9 19.6074 B
20 9 18.5743 B

Means that do not share a letter are significantly different.

Tukey Simultaneous 95% CIs

Tukey Pairwise Comparisons: Response = kadar air, Term = suhu*waktu blanching

Grouping Information Using the Tukey Method and 95% Confidence

suhu*waktu
blanching N Mean Grouping
40 0 3 39.3771 A
40 10 3 32.0833 B
40 20 3 28.1883 B C
50 0 3 26.3735 C
50 10 3 19.0278 D
50 20 3 17.5051 D E
60 0 3 14.5646 E
60 20 3 10.0294 F
60 10 3 7.7110 F

Means that do not share a letter are significantly different.

C. Warna

General Linear Model: RED versus suhu, waktu blanching

Analysis of Variance

Source DF Adj SS Adj MS F-Value P-Value

suhu	2	2230.22	1115.11	4.79	0.022
waktu blanching	2	60.67	30.33	0.13	0.879
suhu*waktu blanching	4	1835.11	458.78	1.97	0.142
Error	18	4192.00	232.89		
Total	26	8318.00			

Comparisons for RED

Tukey Pairwise Comparisons: Response = RED, Term = suhu

Grouping Information Using the Tukey Method and 95% Confidence

suhu	N	Mean	Grouping	
60	9	207.556	A	
40	9	203.778	A	B
50	9	186.667		B

Means that do not share a letter are significantly different.

Tukey Simultaneous 95% CIs

Tukey Pairwise Comparisons: Response = RED, Term = waktu blanching

Grouping Information Using the Tukey Method and 95% Confidence

waktu blanching	N	Mean	Grouping
20	9	201.111	A
10	9	199.444	A
0	9	197.444	A

Means that do not share a letter are significantly different.

Tukey Simultaneous 95% CIs

Tukey Pairwise Comparisons: Response = RED, Term = suhu*waktu blanching

Grouping Information Using the Tukey Method and 95% Confidence

suhu*waktu blanching	N	Mean	Grouping
40 10	3	215.000	A
60 0	3	211.000	A
60 10	3	206.333	A
60 20	3	205.333	A
50 20	3	203.000	A
40 0	3	201.333	A
40 20	3	195.000	A
50 0	3	180.000	A
50 10	3	177.000	A

Means that do not share a letter are significantly different.

General Linear Model: GREEN versus suhu, waktu blanching

Analysis of Variance

Source	DF	Adj SS	Adj MS	F-Value	P-Value
suhu	2	11.56	5.778	0.71	0.504
waktu blanching	2	69.56	34.778	4.29	0.030
suhu*waktu blanching	4	31.56	7.889	0.97	0.447
Error	18	146.00	8.111		
Total	26	258.67			

Tukey Pairwise Comparisons: Response = GREEN, Term = suhu

Grouping Information Using the Tukey Method and 95% Confidence

suhu	N	Mean	Grouping
40	9	11.4444	A
50	9	11.0000	A
60	9	9.8889	A

Means that do not share a letter are significantly different.

Tukey Simultaneous 95% CIs

Tukey Pairwise Comparisons: Response = GREEN, Term = waktu blanching

Grouping Information Using the Tukey Method and 95% Confidence

waktu blanching	N	Mean	Grouping	
0	9	12.8889	A	
20	9	10.4444	A	B
10	9	9.0000		B

Means that do not share a letter are significantly different.

Tukey Simultaneous 95% CIs

Tukey Pairwise Comparisons: Response = GREEN, Term = suhu*waktu blanching

Grouping Information Using the Tukey Method and 95% Confidence

suhu*waktu blanching	N	Mean	Grouping
40 0	3	15.3333	A
50 0	3	12.6667	A
40 20	3	11.0000	A
50 20	3	11.0000	A
60 0	3	10.6667	A
60 10	3	9.6667	A
50 10	3	9.3333	A
60 20	3	9.3333	A
40 10	3	8.0000	A

Means that do not share a letter are significantly different.

General Linear Model: BLUE versus suhu, waktu blanching

Analysis of Variance

Source	DF	Adj SS	Adj MS	F-Value	P-Value
suhu	2	4.222	2.111	0.29	0.750
waktu blanching	2	141.556	70.778	9.80	0.001
suhu*waktu blanching	4	14.889	3.722	0.52	0.725
Error	18	130.000	7.222		
Total	26	290.667			

Tukey Pairwise Comparisons: Response = BLUE, Term = suhu

Grouping Information Using the Tukey Method and 95% Confidence

suhu	N	Mean	Grouping
40	9	11.6667	A
50	9	10.8889	A
60	9	10.7778	A

Means that do not share a letter are significantly different.

Tukey Simultaneous 95% CIs

Tukey Pairwise Comparisons: Response = BLUE, Term = waktu blanching

Grouping Information Using the Tukey Method and 95% Confidence

waktu blanching	N	Mean	Grouping
0	9	14.2222	A
20	9	10.3333	B
10	9	8.7778	B

Means that do not share a letter are significantly different.

Tukey Simultaneous 95% CIs

Tukey Pairwise Comparisons: Response = BLUE, Term = suhu*waktu blanching

Grouping Information Using the Tukey Method and 95% Confidence

suhu*waktu
blanching N Mean Grouping
40 0 3 15.3333 A
50 0 3 14.0000 A
60 0 3 13.3333 A
40 20 3 11.6667 A
50 20 3 10.0000 A
60 10 3 9.6667 A
60 20 3 9.3333 A
50 10 3 8.6667 A
40 10 3 8.0000 A

Means that do not share a letter are significantly different.

D. Tekstur

General Linear Model: TEKSTUR versus suhu, waktu blanching

Analysis of Variance

Source	DF	Adj SS	Adj MS	F-Value	P-Value
suhu	2	349.59	174.80	5.09	0.018
waktu blanching	2	142.73	71.36	2.08	0.154
suhu*waktu blanching	4	49.79	12.45	0.36	0.832
Error	18	618.69	34.37		
Total	26	1160.81			

Tukey Pairwise Comparisons: Response = TEKSTUR, Term = suhu

Grouping Information Using the Tukey Method and 95% Confidence

suhu N Mean Grouping

```
60     9  23.2111  A
50     9  17.9556  A      B
40     9  14.4556         B

Means that do not share a letter are significantly
different.
```

Tukey Simultaneous 95% CIs

Tukey Pairwise Comparisons: Response = TEKSTUR, Term = waktu blanching

```
Grouping Information Using the Tukey Method and 95%
Confidence

waktu
blanching  N     Mean  Grouping
10         9  21.7889  A
0          9  17.0444  A
20         9  16.7889  A

Means that do not share a letter are significantly
different.
```

Tukey Pairwise Comparisons: Response = TEKSTUR, Term = suhu*waktu blanching

```
Grouping Information Using the Tukey Method and 95%
Confidence

suhu*waktu
blanching   N     Mean  Grouping
60 10       3  25.6667  A
60 0        3  24.3333  A
50 10       3  21.8000  A
60 20       3  19.6333  A
40 10       3  17.9000  A
50 20       3  16.7667  A
50 0        3  15.3000  A
40 20       3  13.9667  A
```

40 0 3 11.5000 A

Means that do not share a letter are significantly different.

E. Antioksidan

General Linear Model: antioksidan versus suhu, waktu blanching

Analysis of Variance

Source	DF	Adj SS	Adj MS	F-Value	P-Value
suhu	2	3.712	1.8562	8.66	0.002
waktu blanching	2	6.718	3.3590	15.67	0.000
suhu*waktu blanching	4	27.948	6.9869	32.60	0.000
Error	18	3.858	0.2143		
Total	26	42.236			

Comparisons for antioksidan

Tukey Pairwise Comparisons: Response = antioksidan, Term = suhu

Grouping Information Using the Tukey Method and 95% Confidence

suhu	N	Mean	Grouping
40	9	3.17000	A
60	9	2.46000	B
50	9	2.32444	B

Means that do not share a letter are significantly different.

Tukey Simultaneous 95% CIs

Tukey Pairwise Comparisons: Response = antioksidan, Term = waktu blanching

Grouping Information Using the Tukey Method and 95% Confidence

waktu blanching	N	Mean	Grouping
0	9	3.31556	A
10	9	2.52556	B
20	9	2.11333	B

Means that do not share a letter are significantly different.

Tukey Simultaneous 95% CIs

Tukey Pairwise Comparisons: Response = antioksidan, Term = suhu*waktu blanching

Grouping Information Using the Tukey Method and 95% Confidence

suhu*waktu blanching	N	Mean	Grouping		
40 0	3	5.63667	A		
60 10	3	3.09667		B	
50 10	3	3.00333		B	
60 0	3	2.64333		B	C
40 20	3	2.39667		B	C
50 20	3	2.30333		B	C
50 0	3	1.66667			C
60 20	3	1.64000			C
40 10	3	1.47667			C

Means that do not share a letter are significantly different

Lampiran 11. Nilai *Standar Deviasi*

a. Rendemen

Blanching (menit) / Suhu pengeringan (^{0}C)	Tanpa	10	20
40	2.93	1.28	0.65
50	3.95	1.92	1.63
60	1.24	2.14	1.05

b. Warna

1. *Red*

Blanching (menit) / Suhu pengeringan (^{0}C)	Tanpa	10	20
40	17	12	18
50	27	18	2
60	12	7	10

2. *Green*

Blanching (menit) / Suhu pengeringan (^{0}C)	Tanpa	10	20
40	5	2	3
50	3	2	3
60	3	2	2

3. *Blue*

Blanching (menit) / Suhu pengeringan (^{0}C)	Tanpa	10	20
40	5	2	3
50	1	3	0
60	4	2	2

c. Tekstur

Blanching (menit) / Suhu pengeringan (^{0}C)	Tanpa	10	20
40	1.7	4.9	4.6
50	2.7	3.8	6.3
60	3.7	10.1	5.6

d. Antioksidan

Blanching (menit) / Suhu pengeringan (^{0}C)	Tanpa	10	20
40	0.45	0.22	0.47
50	0.56	0.65	0.49
60	0.16	0.34	0.57

Lampiran 12. Data penyusutan massa dan penurunan kadar air

a. Suhu 60^{0}C tanpa *blanching*

DATA PENGERINGAN (sampel + dish)				DATA PENGERINGAN (sampel)			DATA KADAR AIR (%b)				RATA-RATA KADAR AIR (%b)	
	P1	P2	P3		P1	P2	P3	WAKTU (MENIT)	KADAR AIR P1	KADAR AIR P2	KADAR AIR P3	Waktu	Kadar Air
BERAT DISH	0.339	0.304	0.296		0.339	0.304	0.296						
BERAT SAMPEL	3.086	3.06	3.007	BERAT SAMPEL	3.086	3.06	3.007	0	65.526	65.359	64.051	0	65.312
15	3.341	3.265	3.211	15	3.002	2.961	2.915	15	65.590	64.201	62.316	15	64.236
30	3.273	3.187	3.14	30	2.934	2.883	2.844	30	64.782	63.233	61.990	30	63.338
45	3.21	3.103	3.068	45	2.871	2.825	2.772	45	64.020	62.270	61.003	45	62.411
60	3.147	3.04	3.002	60	2.808	2.736	2.706	60	63.212	61.257	60.052	60	61.507
75	3.093	2.979	2.948	75	2.754	2.675	2.652	75	62.491	60.374	59.238	75	60.701
90	3.033	2.911	2.887	90	2.694	2.607	2.591	90	61.656	59.340	58.279	90	59.758
105	2.975	2.848	2.826	105	2.636	2.544	2.530	105	60.812	58.333	57.273	105	58.806
120	2.922	2.792	2.777	120	2.583	2.488	2.481	120	60.008	57.395	56.429	120	57.944
150	2.835	2.675	2.667	150	2.476	2.371	2.371	150	58.279	55.233	54.407	150	55.993
180	2.713	2.568	2.557	180	2.374	2.264	2.261	180	56.497	53.180	52.169	180	53.952
210	2.595	2.433	2.423	210	2.246	2.129	2.127	210	54.007	50.211	49.177	210	51.132
240	2.494	2.342	2.331	240	2.155	2.038	2.035	240	52.065	47.988	46.880	240	48.978
270	2.404	2.256	2.244	270	2.065	1.952	1.948	270	49.976	45.897	44.507	270	46.727
300	2.321	2.172	2.157	300	1.982	1.868	1.861	300	47.881	43.255	41.913	300	44.350
330	2.24	2.092	2.074	330	1.901	1.788	1.778	330	45.660	40.716	39.201	330	41.859
360	2.168	2.023	2.004	360	1.829	1.719	1.708	360	43.521	38.336	36.710	360	39.522
390	2.097	1.955	1.934	390	1.759	1.651	1.638	390	41.240	35.796	34.005	390	37.014
420	2.031	1.896	1.874	420	1.692	1.592	1.578	420	38.948	33.417	31.496	420	34.620
450	1.971	1.843	1.818	450	1.632	1.539	1.522	450	36.703	31.124	28.975	450	32.269
480	1.906	1.791	1.765	480	1.567	1.487	1.469	480	34.078	28.716	26.413	480	29.735
510	1.855	1.744	1.72	510	1.516	1.440	1.424	510	31.860	26.389	24.087	510	27.445
540	1.809	1.705	1.68	540	1.470	1.401	1.384	540	29.728	24.340	21.893	540	25.320
570	1.769	1.67	1.647	570	1.429	1.366	1.351	570	27.712	22.401	19.995	570	23.366
600	1.732	1.64	1.618	600	1.393	1.336	1.322	600	25.944	20.659	18.230	600	21.577
630	1.695	1.611	1.593	630	1.356	1.307	1.297	630	23.820	18.898	16.654	630	19.791
660	1.663	1.586	1.575	660	1.330	1.282	1.279	660	22.33	17.317	15.481	660	18.376
690	1.637	1.562	1.553	690	1.298	1.258	1.263	690	20.42	15.739	14.410	690	16.855
720	1.618	1.545	1.546	720	1.279	1.241	1.250	720	19.23	14.595	13.520	720	15.780
750	1.6	1.535	1.537	750	1.261	1.231	1.241	750	18.08	13.891	12.893	750	14.955
780	1.595	1.529	1.531	780	1.256	1.225	1.235	780	17.75	13.469	12.470	780	14.565
berat akhir	1.372	1.364	1.377		1.033	1.060	1.081						

Activate Windows

b. Suhu 50^{0}C tanpa *blanching*

DATA PENGERINGAN(sampel+ dish)				DATA PENGERINGAN(sampel)			DATA KADAR AIR (%b)				RATA RATA KADAR AIR (%b)	
	P1	P2	P3	P1	P2	P3	WAKTU (MENIT)	KADAR AIR P1	KADAR AIR P2	KADAR AIR P3	Waktu	Kadar Air
BERAT DISH	0.339	0.304	0.296	0.339	0.304	0.296						
BERAT SAMPEL	2.950	2.891	2.943	2.950	2.891	2.943						
	15	3.223	3.142	3.178	15	2.884	2.838	2.882	0	61.593	61.086	60.359	67.498	68.162	0	63.674
	30	3.174	3.091	3.118	30	2.835	2.787	2.822	30	60.035	59.634	58.797	66.051	65.412	15	62.854
	45	3.125	3.042	3.056	45	2.786	2.738	2.760	45	58.332	58.912	56.051	65.412	65.412	30	62.155
	60	3.085	2.997	3.005	60	2.746	2.693	2.709	60	58.740	58.225	55.412	64.693	64.693	45	61.432
	75	3.042	2.957	2.948	75	2.703	2.653	2.652	75	58.084	57.595	54.693	63.962	63.962	60	60.792
	90	3.001	2.914	2.896	90	2.662	2.610	2.600	90	57.438	56.897	53.962	63.962	63.962	75	60.116
	105	2.957	2.864	2.833	105	2.618	2.560	2.537	105	56.723	56.055	53.067	63.962	63.962	90	59.432
	120	2.920	2.826	2.785	120	2.581	2.522	2.489	120	56.102	55.393	52.354	63.962	63.962	105	58.675
	150	2.844	2.742	2.678	150	2.505	2.438	2.382	150	54.770	53.856	50.663	63.962	63.962	120	57.950
	180	2.775	2.669	2.587	180	2.436	2.364	2.291	180	53.489	52.411	49.101	63.962	63.962	150	56.430
	210	2.700	2.600	2.503	210	2.361	2.296	2.207	210	52.012	51.002	47.544	63.962	63.962	180	55.000
	240	2.650	2.536	2.420	240	2.311	2.232	2.124	240	50.974	49.597	45.885	63.962	63.962	210	53.579
	270	2.588	2.476	2.343	270	2.249	2.172	2.047	270	49.622	48.204	44.226	63.962	63.962	240	52.152
	300	2.536	2.422	2.270	300	2.197	2.118	1.974	300	48.430	46.884	42.533	63.962	63.962	270	50.684
	330	2.479	2.366	2.197	330	2.140	2.062	1.901	330	47.056	45.441	40.770	63.962	63.962	300	49.282
	360	2.434	2.319	2.135	360	2.095	2.015	1.839	360	45.979	44.169	39.048	63.962	63.962	330	47.736
	390	2.385	2.274	2.074	390	2.046	1.970	1.778	390	44.624	42.893	37.300	63.962	63.962	360	46.379
	420	2.332	2.225	2.010	420	1.993	1.921	1.714	420	43.151	41.437	35.333	63.962	63.962	390	44.939
	450	2.283	2.181	1.954	450	1.944	1.877	1.658	450	41.778	40.064	33.486	63.962	63.962	420	43.307
	480	2.243	2.139	1.902	480	1.904	1.835	1.606	480	40.494	38.692	31.656	63.962	63.962	450	41.756
	510	2.199	2.102	1.852	510	1.860	1.798	1.556	510	39.086	37.430	29.781	63.962	63.962	480	40.281
	540	2.157	2.064	1.808	540	1.818	1.760	1.512	540	37.679	36.080	28.029	63.962	63.962	510	38.766
	570	2.117	2.030	1.763	570	1.778	1.726	1.467	570	36.277	34.820	26.128	63.962	63.962	540	37.262
	600	2.080	1.995	1.722	600	1.741	1.691	1.426	600	34.922	33.471	24.292	63.962	63.962	570	35.742
	630	2.043	1.966	1.688	630	1.704	1.662	1.392	630	33.509	32.310	22.887	63.962	63.962	600	34.223
	660	2.009	1.936	1.652	660	1.670	1.632	1.356	660	32.16	31.066	20.900	63.962	63.962	630	32.836
	690	1.979	1.909	1.623	690	1.640	1.605	1.327	690	30.91	29.907	19.390	63.962	63.962	660	31.374
	720	1.950	1.883	1.596	720	1.611	1.579	1.300	720	29.67	28.752	17.923	63.962	63.962	690	30.070
	750	1.925	1.860	1.571	750	1.586	1.556	1.275	750	28.56	27.639	16.570	63.962	63.962	720	28.762
	780	1.900	1.838	1.546	780	1.561	1.534	1.250	780	27.42	26.662	15.040	63.962	63.962	750	27.590
berat akhir		1.472	1.429	1.233		1.133	1.125	0.937							780	26.374

Activate Windo
Go to PC settings

c. Suhu 40^{0}C tanpa *blanching*

DATA PENGERINGAN(sampel+ dish)				DATA PENGERINGAN(sampel)				DATA KADAR AIR (%b)				RATA RATA KADAR AIR (%b)	
	P1	P2	P3		P1	P2	P3						
BERAT DISH	0.339	0.303	0.296	BERAT DISH	0.339	0.303	0.296	WAKTU (MENIT)	KADAR AIR P1	KADAR AIR P2	KADAR AIR P3	Waktu	Kadar Air
BERAT SAMPEL	3.046	2.943	2.906	BERAT SAMPEL	3.046	2.943	2.906	0	59.225	63.948	64.591	0	62.588
15	3.336	3.206	3.154	15	2.997	2.903	2.858	15	59.559	63.452	63.996	15	62.002
30	3.304	3.175	3.114	30	2.965	2.872	2.818	30	58.111	63.057	63.465	30	61.551
45	3.275	3.142	3.077	45	2.936	2.839	2.781	45	57.698	62.628	62.999	45	61.108
60	3.244	3.105	3.038	60	2.905	2.802	2.742	60	57.246	62.134	62.473	60	60.618
75	3.219	3.077	3.002	75	2.880	2.774	2.706	75	56.875	61.752	61.973	75	60.200
90	3.192	3.044	2.965	90	2.853	2.741	2.669	90	56.467	61.291	61.446	90	59.735
105	3.166	3.016	2.930	105	2.827	2.713	2.634	105	56.067	60.892	60.934	105	59.297
120	3.137	2.984	2.891	120	2.798	2.681	2.595	120	55.611	60.425	60.347	120	58.794
150	3.089	2.925	2.823	150	2.750	2.622	2.527	150	54.836	59.535	59.280	150	57.884
180	3.042	2.868	2.755	180	2.703	2.565	2.459	180	54.051	58.635	58.154	180	56.947
210	2.989	2.812	2.691	210	2.650	2.509	2.395	210	53.308	57.712	57.035	210	56.019
240	2.953	2.750	2.628	240	2.614	2.447	2.332	240	52.487	56.641	55.875	240	55.001
270	2.908	2.688	2.564	270	2.569	2.385	2.268	270	51.654	55.514	54.630	270	53.933
300	2.870	2.631	2.513	300	2.531	2.328	2.217	300	50.928	54.424	53.586	300	52.980
330	2.834	2.583	2.468	330	2.495	2.280	2.172	330	50.220	53.465	52.624	330	52.103
360	2.793	2.529	2.416	360	2.454	2.226	2.120	360	49.389	52.336	51.462	360	51.062
390	2.760	2.483	2.374	390	2.421	2.180	2.078	390	48.639	51.330	50.491	390	50.170
420	2.723	2.435	2.334	420	2.384	2.132	2.038	420	47.903	50.235	49.509	420	49.216
450	2.688	2.388	2.294	450	2.349	2.085	1.998	450	47.126	49.113	48.498	450	48.246
480	2.659	2.347	2.260	480	2.320	2.044	1.964	480	46.466	48.092	47.807	480	47.388
510	2.624	2.309	2.228	510	2.285	2.006	1.932	510	45.646	47.109	46.739	510	46.498
540	2.592	2.271	2.196	540	2.253	1.968	1.900	540	44.874	46.087	45.842	540	45.601
570	2.562	2.240	2.167	570	2.223	1.937	1.871	570	44.130	45.225	45.003	570	44.786
600	2.535	2.211	2.140	600	2.196	1.908	1.844	600	43.443	44.392	44.197	600	44.011
630	2.508	2.178	2.110	630	2.169	1.875	1.814	630	42.739	43.413	43.275	630	43.142
660	2.483	2.152	2.086	660	2.144	1.849	1.790	660	42.07	42.678	42.574	660	42.401
690	2.453	2.123	2.061	690	2.114	1.826	1.765	690	41.25	41.895	41.700	690	41.674
720	2.431	2.108	2.041	720	2.092	1.805	1.745	720	40.63	41.219	41.032	720	40.960
750	2.402	2.080	2.013	750	2.063	1.777	1.717	750	39.90	40.293	40.070	750	40.053
780	2.379	2.059	1.995	780	2.040	1.756	1.699	780	39.12	39.579	39.435	780	39.377
berat akhir	1.581	1.364	1.325		1.242	1.061	1.023						

Activate Win

d. Suhu 60^{0}C *blanching* 10 menit

DATA PENGERINGAN (sampel + dish)				DATA PENGERINGAN (sampel)			DATA KADAR AIR (%b)				DATA RATA KADAR AIR (%b)	
	P1	P2	P3		P1	P2	P3	WAKTU (MENIT)	KADAR AIR P1	KADAR AIR P2	KADAR AIR P3	Waktu	Kadar Air
BERAT DISH	0.307	0.350	0.320	BERAT DISH	0.307	0.350	0.320						
BERAT SAMPEL	2.981	2.959	2.942	BERAT SAMPEL	2.981	2.959	2.942	0	66.152	68.604	64.344	0	66.367
15	3.086	3.045	3.100	15	2.779	2.695	2.780	15	63.692	65.529	62.266	15	63.829
30	2.956	2.894	2.991	30	2.649	2.544	2.671	30	61.910	63.483	60.726	30	62.040
45	2.813	2.760	2.889	45	2.506	2.410	2.579	45	59.737	61.452	58.325	45	60.171
60	2.638	2.628	2.784	60	2.331	2.278	2.464	60	57.800	59.219	57.427	60	58.149
75	2.581	2.515	2.700	75	2.274	2.165	2.380	75	55.629	57.090	55.924	75	56.214
90	2.482	2.408	2.617	90	2.175	2.058	2.297	90	53.609	54.859	54.332	90	54.267
105	2.371	2.312	2.533	105	2.064	1.962	2.213	105	51.114	52.650	52.598	105	52.121
120	2.274	2.213	2.444	120	1.967	1.863	2.124	120	48.704	50.134	50.672	120	49.837
150	2.116	2.046	2.300	150	1.809	1.696	1.980	150	44.223	45.224	47.020	150	45.489
180	1.992	1.925	2.189	180	1.685	1.575	1.869	180	40.119	41.096	43.874	180	41.689
210	1.892	1.827	2.090	210	1.585	1.477	1.770	210	36.341	37.102	40.734	210	38.059
240	1.807	1.739	2.00	240	1.500	1.389	1.690	240	32.733	33.117	37.929	240	34.593
270	1.717	1.654	1.933	270	1.410	1.304	1.613	270	28.440	28.758	34.986	270	30.721
300	1.652	1.590	1.873	300	1.345	1.240	1.553	300	24.981	25.061	32.453	300	27.505
330	1.592	1.540	1.818	330	1.285	1.190	1.498	330	21.479	21.933	29.973	330	24.462
360	1.538	1.493	1.761	360	1.231	1.139	1.441	360	18.034	18.437	27.203	360	21.225
390	1.496	1.457	1.720	390	1.189	1.107	1.400	390	15.139	16.079	25.071	390	18.763
420	1.466	1.430	1.685	420	1.159	1.080	1.365	420	12.942	13.981	23.150	420	16.691
450	1.438	1.412	1.653	450	1.131	1.062	1.333	450	10.787	12.524	21.305	450	14.872
480	1.426	1.394	1.626	480	1.119	1.044	1.306	480	9.830	11.015	19.678	480	13.508
510	1.411	1.381	1.600	510	1.104	1.031	1.280	510	8.605	9.883	18.047	510	12.182
540	1.406	1.371	1.582	540	1.099	1.021	1.262	540	8.189	9.011	16.878	540	11.359
570	1.395	1.363	1.561	570	1.088	1.013	1.241	570	7.261	8.292	15.471	570	10.342
600	1.380	1.356	1.543	600	1.083	1.006	1.223	600	6.833	7.654	14.227	600	9.571
630	1.389	1.351	1.533	630	1.082	1.001	1.213	630	6.747	7.193	13.520	630	9.153
660	1.387	1.349	1.522	660	1.080	0.999	1.202	660	6.57	7.007	12.729	660	8.770
690	1.383	1.346	1.513	690	1.076	0.996	1.193	690	6.23	6.727	12.070	690	8.341
720	1.382	1.345	1.507	720	1.075	0.995	1.187	720	6.14	6.633	11.626	720	8.133
750	1.381	1.344	1.501	750	1.074	0.994	1.181	750	6.05	6.539	11.177	750	7.923
780	1.380	1.343	1.495	780	1.073	0.993	1.175	780	5.96	6.445	10.723	780	7.711
berat akhir	1.376	1.279	1.369		1.009	0.929	1.049						

Activate Windo

e. Suhu 50^{0}C *blanching* 10 menit

DATA PENGERINGAN (sampel + dish)				DATA PENGERINGAN (sampel)				DATA KADAR AIR (%b)				RATA-RATA KADAR AIR (%b)	
BERAT DISH	P1	P2	P3	BERAT DISH	P1	P2	P3	WAKTU (MENIT)	KADAR AIR P1	KADAR AIR P2	KADAR AIR P3	Waktu	Kadar Air
BERAT SAMPEL	2.962	2.898	2.938	BERAT SAMPEL	2.962	2.898	2.938	0	60.668	63.630	64.261	0	62.853
15	3.189	3.162	3.178	15	2.882	2.808	2.858	15	59.577	62.464	63.261	15	61.767
30	3.123	3.086	3.107	30	2.816	2.732	2.787	30	58.629	61.420	62.325	30	60.792
45	3.058	3.023	3.042	45	2.751	2.669	2.722	45	57.652	60.510	61.425	45	59.862
60	2.989	2.963	2.972	60	2.682	2.609	2.652	60	56.562	59.601	60.407	60	58.857
75	2.930	2.905	2.910	75	2.623	2.551	2.590	75	55.585	58.683	59.459	75	57.909
90	2.863	2.840	2.844	90	2.556	2.486	2.524	90	54.421	57.603	58.339	90	56.808
105	2.813	2.789	2.789	105	2.506	2.435	2.469	105	53.512	56.715	57.473	105	55.900
120	2.759	2.738	2.736	120	2.452	2.384	2.416	120	52.488	55.789	56.540	120	54.939
150	2.650	2.642	2.623	150	2.343	2.288	2.303	150	50.277	53.934	54.407	150	52.873
180	2.546	2.544	2.512	180	2.239	2.190	2.192	180	47.968	51.872	52.089	180	50.646
210	2.453	2.451	2.412	210	2.146	2.097	2.092	210	45.713	49.738	49.809	210	48.420
240	2.376	2.376	2.323	240	2.069	2.022	2.009	240	43.693	47.873	47.735	240	46.434
270	2.304	2.239	2.25	270	1.997	1.945	1.930	270	41.662	45.810	45.536	270	44.356
300	2.235	2.228	2.178	300	1.928	1.874	1.858	300	39.575	43.757	43.488	300	42.273
330	2.174	2.172	2.114	330	1.867	1.818	1.794	330	37.600	42.024	41.472	330	40.365
360	2.121	2.107	2.051	360	1.814	1.753	1.731	360	35.777	39.875	39.341	360	38.331
390	2.066	2.046	1.987	390	1.759	1.692	1.667	390	33.769	37.707	37.013	390	36.163
420	2.023	2.000	1.942	420	1.716	1.646	1.622	420	32.110	35.966	35.265	420	34.447
450	1.980	1.949	1.892	450	1.673	1.595	1.572	450	30.365	33.918	33.206	450	32.496
480	1.942	1.912	1.856	480	1.635	1.558	1.536	480	28.746	32.349	31.641	480	30.912
510	1.910	1.888	1.814	510	1.603	1.514	1.494	510	27.324	30.983	29.719	510	29.142
540	1.880	1.834	1.781	540	1.573	1.460	1.461	540	25.938	28.784	28.131	540	27.618
570	1.854	1.805	1.753	570	1.547	1.451	1.433	570	24.693	27.360	26.727	570	26.260
600	1.828	1.776	1.724	600	1.521	1.422	1.404	600	23.406	25.879	25.234	600	24.833
630	1.809	1.754	1.701	630	1.502	1.400	1.381	630	22.437	24.744	23.968	630	23.706
660	1.792	1.736	1.682	660	1.485	1.382	1.362	660	21.55	23.734	22.907	660	22.730
690	1.773	1.714	1.662	690	1.466	1.360	1.342	690	20.53	22.500	21.759	690	21.597
720	1.756	1.700	1.644	720	1.449	1.346	1.324	720	19.60	21.694	20.935	720	20.663
750	1.742	1.683	1.628	750	1.435	1.329	1.308	750	18.82	20.692	19.725	750	19.744
780	1.730	1.670	1.617	780	1.423	1.316	1.297	780	18.13	19.909	19.044	780	19.028
berat akhir	1.472	1.408	1.370		1.165	1.054	1.05						

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f. Suhu 40^{0}C *blanching* 10 menit

LJA I A PENJEMIHAN (sampel + dish)				LJA I A PENJEMIHAN (sampel)				LJA I A KALIAH AIH (wb)				HA I A HA I A KALIAH AIH (wb)	
	P1	P2	P3		P1	P2	P3						
BERAT DISH	0.306	0.354	0.320	BERAT DISH	0.306	0.354	0.320	WAKTU (MENIT)	KADAR AIR P1	KADAR AIR P2	KADAR AIR P3	Waktu	Kadar Air
BERAT SAMPEL	2.973	2.954	2.952	BERAT SAMPEL	2.973	2.954	2.952	0	65.254	66.385	63.821	0	65.153
15	3.227	3.242	3.244	15	2.921	2.888	2.924	15	64.635	65.616	63.475	15	64.575
30	3.156	3.187	3.181	30	2.850	2.833	2.861	30	63.754	64.949	62.670	30	63.791
45	3.101	3.138	3.139	45	2.795	2.784	2.819	45	63.041	64.332	62.114	45	63.162
60	3.045	3.085	3.095	60	2.739	2.731	2.775	60	62.286	63.640	61.514	60	62.480
75	2.989	3.029	3.048	75	2.683	2.675	2.728	75	61.498	62.879	60.850	75	61.742
90	2.928	2.973	2.999	90	2.622	2.619	2.679	90	60.603	62.085	60.194	90	60.941
105	2.874	2.929	2.953	105	2.568	2.575	2.633	105	59.774	61.437	59.438	105	60.216
120	2.834	2.890	2.921	120	2.528	2.536	2.601	120	59.138	60.844	58.939	120	59.640
150	2.744	2.802	2.846	150	2.438	2.448	2.526	150	57.829	59.436	57.720	150	58.262
180	2.654	2.715	2.766	180	2.348	2.361	2.446	180	56.005	57.942	56.337	180	56.761
210	2.574	2.639	2.696	210	2.268	2.285	2.376	210	54.453	56.543	55.051	210	55.349
240	2.503	2.566	2.628	240	2.197	2.212	2.308	240	52.981	55.108	53.726	240	53.939
270	2.436	2.501	2.567	270	2.130	2.147	2.247	270	51.502	53.749	52.470	270	52.574
300	2.373	2.434	2.509	300	2.067	2.080	2.189	300	50.024	52.260	51.211	300	51.165
330	2.312	2.366	2.448	330	2.006	2.012	2.128	330	48.504	50.646	49.812	330	49.654
360	2.259	2.315	2.399	360	1.953	1.961	2.079	360	47.107	49.363	48.629	360	48.366
390	2.210	2.263	2.349	390	1.904	1.909	2.029	390	45.746	47.883	47.363	390	47.031
420	2.162	2.212	2.299	420	1.856	1.858	1.979	420	44.343	46.555	46.033	420	45.644
450	2.114	2.163	2.255	450	1.808	1.809	1.935	450	42.865	45.108	44.806	450	44.260
480	2.077	2.117	2.211	480	1.771	1.763	1.891	480	41.671	43.676	43.522	480	42.956
510	2.039	2.073	2.168	510	1.733	1.719	1.848	510	40.392	42.234	42.208	510	41.611
540	2.002	2.035	2.132	540	1.696	1.681	1.812	540	39.092	40.928	41.060	540	40.360
570	1.972	2.002	2.098	570	1.666	1.648	1.778	570	37.935	39.745	39.933	570	39.224
600	1.942	1.974	2.065	600	1.636	1.620	1.745	600	36.859	38.704	38.797	600	38.119
630	1.911	1.935	2.035	630	1.605	1.581	1.715	630	35.639	37.492	37.726	630	36.852
660	1.887	1.908	2.004	660	1.581	1.554	1.684	660	34.66	36.100	36.580	660	35.781
690	1.861	1.880	1.987	690	1.555	1.526	1.667	690	33.57	34.928	35.933	690	34.870
720	1.842	1.859	1.960	720	1.536	1.505	1.640	720	32.75	34.020	34.878	720	33.882
750	1.821	1.838	1.938	750	1.515	1.482	1.618	750	31.92	32.996	33.993	750	32.935
780	1.804	1.817	1.916	780	1.498	1.463	1.596	780	31.04	32.126	33.083	780	32.083
berat akhir	1.339	1.347	1.368		1.033	0.393	1.068						

Activate Wi

g. Suhu 60^{0}C *blanching* 20 menit

DATA PENGERINGAN (sampel + dish)				DATA PENGERINGAN (sampel)			DATA KADAR AIR (%b)				DATA RATA RATA KADAR AIR (%b)	
	P1	P2	P3		P1	P2	P3	WAKTU (MENIT)	KADAR AIR P1	KADAR AIR P2	KADAR AIR P3	Waktu	Kadar Air
BERAT DISH	0.322	0.323	0.297	BERAT DISH	0.322	0.323	0.297						
BERAT SAMPEL	2.973	3.082	3.028	BERAT SAMPEL	2.973	3.082	3.028						
15	3.010	3.227	3.144	15	2.688	2.904	2.847	0	66.532	66.418	64.663	0	65.871
30	2.881	3.101	3.037	30	2.559	2.778	2.740	15	62.984	64.360	62.417	15	63.253
45	2.769	2.979	2.924	45	2.447	2.656	2.627	30	61.118	62.743	60.949	30	61.603
60	2.655	2.866	2.823	60	2.333	2.543	2.526	45	59.338	61.032	59.269	45	59.880
75	2.565	2.765	2.734	75	2.243	2.442	2.437	75	55.640	57.617	56.094	75	56.450
90	2.469	2.668	2.649	90	2.147	2.345	2.352	90	53.656	55.864	54.507	90	54.676
105	2.387	2.582	2.570	105	2.065	2.259	2.273	105	51.896	54.183	52.926	105	52.975
120	2.302	2.487	2.489	120	1.980	2.164	2.192	120	49.747	52.172	51.186	120	51.035
150	2.140	2.311	2.338	150	1.818	1.988	2.041	150	45.270	47.938	47.575	150	46.927
180	2.018	2.150	2.205	180	1.696	1.827	1.908	180	41.333	43.350	43.920	180	42.868
210	1.931	2.041	2.110	210	1.609	1.718	1.813	210	38.160	39.756	40.982	210	39.633
240	1.842	1.924	2.005	240	1.520	1.601	1.708	240	34.539	35.353	37.354	240	35.749
270	1.772	1.839	1.934	270	1.450	1.516	1.637	270	31.379	31.728	34.637	270	32.581
300	1.718	1.776	1.872	300	1.396	1.453	1.575	300	28.725	28.768	32.063	300	29.852
330	1.667	1.718	1.822	330	1.345	1.395	1.525	330	26.022	25.806	29.836	330	27.222
360	1.621	1.671	1.773	360	1.299	1.348	1.476	360	23.403	23.220	27.507	360	24.710
390	1.584	1.629	1.736	390	1.262	1.306	1.439	390	21.457	20.750	25.643	390	22.517
420	1.553	1.596	1.760	420	1.231	1.273	1.463	420	18.171	18.696	26.883	420	21.577
450	1.525	1.567	1.683	450	1.203	1.244	1.372	450	17.290	16.801	22.012	450	18.701
480	1.506	1.546	1.642	480	1.184	1.223	1.345	480	15.963	15.372	20.446	480	17.260
510	1.497	1.527	1.617	510	1.165	1.204	1.320	510	14.592	14.037	18.939	510	15.856
540	1.475	1.514	1.598	540	1.153	1.191	1.301	540	13.703	13.098	17.756	540	14.852
570	1.463	1.498	1.577	570	1.141	1.176	1.280	570	12.796	11.990	16.406	570	13.731
600	1.453	1.493	1.560	600	1.131	1.170	1.263	600	12.025	11.538	15.281	600	12.948
630	1.444	1.485	1.549	630	1.122	1.162	1.252	630	11.319	10.923	14.537	630	12.262
660	1.436	1.480	1.536	660	1.114	1.157	1.239	660	10.688	10.545	13.640	660	11.622
690	1.433	1.475	1.527	690	1.111	1.152	1.230	690	10.44	10.156	13.008	690	11.202
720	1.429	1.471	1.518	720	1.107	1.148	1.221	720	10.12	9.843	12.367	720	10.776
750	1.424	1.467	1.511	750	1.102	1.144	1.214	750	9.71	9.528	11.862	750	10.366
780	1.420	1.463	1.506	780	1.098	1.140	1.209	780	9.38	9.211	11.497	780	10.029
berat akhir	1.317	1.358	1.367		0.995	1.035	1.07						

Activate W

h. Suhu 50^{0}C *blanching* 20 menit

DATA PENGERINGAN (sampel + dish)				DATA PENGERINGAN (sampel)				DATA KADAR AIR (%b)				RATA RATA KADAR AIR (%b)	
BERAT DISH	P1	P2	P3	BERAT DISH	P1	P2	P3	t/AKTU (MENIT)	KADAR AIR P1	KADAR AIR P2	KADAR AIR P3	t/aktu	Kadar Air
BERAT SAMPEL	2.940	2.926	2.921	BERAT SAMPEL	2.940	2.926	2.921	0	62.891	61.244	64.498	0	62.878
15	3.770	3.175	3.140	15	2.849	2.854	2.846	15	61.706	60.266	63.563	15	61.845
30	3.098	3.113	3.077	30	2.777	2.792	2.763	30	60.713	59.394	62.738	30	60.945
45	3.028	3.047	3.014	45	2.707	2.726	2.720	45	59.637	58.401	61.875	45	59.391
60	2.968	2.990	2.955	60	2.647	2.669	2.661	60	58.784	57.512	61.030	60	58.108
75	2.908	2.934	2.902	75	2.587	2.613	2.608	75	57.828	56.602	60.238	75	58.222
90	2.851	2.874	2.841	90	2.530	2.553	2.547	90	56.877	55.592	59.285	90	57.248
105	2.794	2.822	2.790	105	2.473	2.501	2.496	105	55.884	54.658	58.454	105	56.332
120	2.737	2.768	2.734	120	2.416	2.447	2.440	120	54.843	53.658	57.500	120	55.333
150	2.621	2.667	2.621	150	2.300	2.346	2.327	150	52.565	51.662	55.436	150	53.221
180	2.520	2.576	2.521	180	2.199	2.255	2.227	180	50.387	49.712	53.435	180	51.178
210	2.424	2.493	2.430	210	2.103	2.172	2.136	210	48.122	47.790	51.451	210	49.121
240	2.338	2.407	2.338	240	2.017	2.086	2.044	240	45.910	45.638	49.266	240	46.938
270	2.259	2.332	2.256	270	1.938	2.011	1.962	270	43.705	43.610	47.146	270	44.820
300	2.183	2.256	2.173	300	1.862	1.935	1.879	300	41.407	41.395	44.811	300	42.538
330	2.113	2.186	2.097	330	1.792	1.865	1.803	330	39.118	39.196	42.485	330	40.266
360	2.055	2.125	2.036	360	1.734	1.804	1.742	360	37.082	37.140	40.471	360	38.231
390	1.995	2.068	1.983	390	1.674	1.747	1.674	390	34.827	35.089	38.053	390	35.989
420	1.944	2.015	1.910	420	1.623	1.694	1.616	420	32.779	33.058	35.829	420	33.889
450	1.893	1.963	1.856	450	1.572	1.642	1.562	450	30.538	30.938	33.611	450	31.776
480	1.851	1.920	1.811	480	1.530	1.599	1.517	480	28.633	29.081	31.641	480	29.805
510	1.813	1.881	1.769	510	1.492	1.560	1.475	510	26.877	27.308	29.695	510	27.960
540	1.779	1.844	1.728	540	1.458	1.523	1.434	540	25.171	25.542	27.885	540	26.133
570	1.752	1.819	1.689	570	1.431	1.498	1.405	570	23.760	24.239	26.192	570	24.750
600	1.728	1.791	1.663	600	1.407	1.470	1.375	600	22.453	22.857	24.582	600	23.289
630	1.704	1.770	1.644	630	1.383	1.449	1.350	630	21.114	21.739	23.185	630	22.013
660	1.684	1.749	1.623	660	1.363	1.428	1.329	660	19.96	20.588	21.971	660	20.839
690	1.668	1.732	1.599	690	1.347	1.411	1.305	690	19.01	19.631	20.536	690	19.724
720	1.651	1.714	1.581	720	1.347	1.393	1.287	720	19.01	18.593	19.425	720	19.008
750	1.634	1.699	1.563	750	1.313	1.378	1.269	750	16.91	17.707	18.282	750	17.632
780	1.633	1.698	1.559	780	1.312	1.377	1.265	780	16.84	17.647	18.024	780	17.505
berat akhir	1.412	1.455	1.331		1.091	1.134	1.037						

Activate
Go to PC s

i. Suhu 40^{0}C *blanching* 20 menit

DATA PENGERINGAN (sampel+ dish)				DATA PENGERINGAN (sampel)				DATA KADAR AIR (%b)				DATA RATA KADAR AIR (%b)	
BERAT DISH	P1	P2	P3	BERAT DISH	P1	P2	P3	WAKTU (MENIT)	KADAR AIR P1	KADAR AIR P2	KADAR AIR P3	Waktu	Kadar Air
BERAT SAMPEL	2.967	2.918	2.949	BERAT SAMPEL	2.967	2.918	2.949	0	62.184	63.468	62.337	0	62.863
15	3.240	3.201	3.238	15	2.920	2.877	2.941	15	61.575	62.948	62.836	15	62.453
30	3.277	3.204	3.234	30	2.957	2.880	2.937	30	62.056	62.986	62.765	30	62.609
45	3.228	3.145	3.187	45	2.908	2.821	2.890	45	61.417	62.212	62.160	45	61.936
60	3.185	3.097	3.144	60	2.865	2.773	2.847	60	60.838	61.558	61.609	60	61.335
75	3.139	3.049	3.099	75	2.819	2.725	2.802	75	60.199	60.881	60.992	75	60.691
90	3.090	2.998	3.053	90	2.770	2.674	2.756	90	59.495	60.135	60.341	90	59.990
105	3.051	2.952	3.013	105	2.731	2.628	2.716	105	58.976	59.437	59.757	105	59.370
120	3.007	2.832	2.973	120	2.687	2.508	2.676	120	58.243	57.496	59.165	120	58.298
150	2.932	2.832	2.899	150	2.612	2.508	2.602	150	57.044	57.496	57.994	150	57.511
180	2.850	2.749	2.825	180	2.530	2.425	2.528	180	55.652	56.041	56.764	180	56.153
210	2.765	2.667	2.750	210	2.445	2.343	2.453	210	54.110	54.503	55.442	210	54.685
240	2.691	2.59	2.677	240	2.371	2.266	2.380	240	52.678	52.957	54.076	240	53.237
270	2.624	2.523	2.611	270	2.304	2.189	2.314	270	51.302	51.523	52.766	270	51.864
300	2.556	2.455	2.547	300	2.236	2.131	2.250	300	49.821	49.977	51.422	300	50.407
330	2.487	2.393	2.474	330	2.167	2.069	2.177	330	48.223	48.478	49.793	330	48.831
360	2.427	2.325	2.411	360	2.107	2.001	2.114	360	46.749	46.727	48.297	360	47.258
390	2.369	2.269	2.355	390	2.049	1.945	2.058	390	45.242	45.193	46.890	390	45.775
420	2.306	2.211	2.294	420	1.986	1.887	1.997	420	43.505	43.508	45.268	420	44.094
450	2.255	2.162	2.243	450	1.935	1.838	1.946	450	42.06	42.002	43.634	450	42.617
480	2.210	2.119	2.198	480	1.890	1.795	1.901	480	40.635	40.610	42.504	480	41.251
510	2.157	2.070	2.148	510	1.837	1.746	1.851	510	38.922	38.946	40.951	510	39.606
540	2.118	2.029	2.104	540	1.798	1.705	1.807	540	37.537	37.478	39.513	540	38.176
570	2.079	1.992	2.067	570	1.759	1.668	1.770	570	36.214	36.091	38.249	570	36.851
600	2.044	1.956	2.031	600	1.724	1.632	1.734	600	34.979	34.881	36.967	600	35.522
630	2.014	1.924	1.993	630	1.694	1.600	1.696	630	33.766	33.375	35.554	630	34.232
660	1.978	1.891	1.958	660	1.658	1.567	1.661	660	32.33	31.972	34.196	660	32.832
690	1.948	1.862	1.926	690	1.628	1.538	1.629	690	31.08	30.689	32.904	690	31.558
720	1.920	1.837	1.897	720	1.600	1.513	1.600	720	29.88	29.544	31.668	720	30.369
750	1.898	1.813	1.875	750	1.578	1.489	1.578	750	28.90	28.408	30.735	750	29.347
780	1.875	1.789	1.847	780	1.555	1.465	1.550	780	27.85	27.235	29.494	780	28.188
berat akhir	1.442	1.390	1.390		1.122	1.066	1.093						

Activate W
Go to PC setti